Send all "SIT-1" Kits to

TODD RESEARCH & TECHNICAL
DIVISION
P.O. BOX 1600
GALVESTON, TEXAS 77553
PHONE - 713 - 744-7141

ATTN: RAD-CON

CAUTION: Conduct a survey of the outside of each package placed in the U.S. Mails. Any reading over 0.5 mr/hr at contact with envelope or package shall not be mailed.

LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp, Metals Div

Address PO Box 579 City Niagara Falls State NY Zip 14302

ISOTOPE Pu-238, Cm-244, Fe-55, Co-57 ACTIVITY 30 mCi, 1 mCi, 20 mCi, 3 mCi

IDENT./SERIAL NO. 7222/3 C-633, 23 A-962 LEAK TEST DATE 6/16/83

SMEAR TAKEN BY D R Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage under our Texas Radioactive Material License No. 11-871 (copy available upon request)

ALPHA	BETA-GAMMA
<.0005	<.0005

Our findings show the leakage to be uCi. (Wet)

Certified by [signature] Date 6/18/83

(~~Todd~~ Health Physics Representative)
SUNTRAC SERVICES, INC.

TSC-RT-36
Rev. 4
5/2/80

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

The Todd Research & Technical Division SIT-1 Kit is designed for use with all alpha or beta-gamma emitting sources. It may also be used for testing large gamma sources, where due to the potential radiation hazard, a smear is taken of the inside surface of the source housing, cable, etc., rather than the source capsule itself

In special cases where a source is permanently fixed into a system, the closest and most accessible surface such as conical port, source housings, etc , may be taken as the smear area. The kit consists of one piece of filter cloth in a plastic zip-lip envelope, wet with our decontamination solution.

For license approval of our service, please refer to "Todd Research & Technical Division SIT-1 Kit" in your application to your State, Division of Licensing, or the NRC Division of Licensing.

CAUTION

1. Portable survey instruments should be used during all smear testing.
2. Rubber gloves should be worn, especially when handling beta sources.
3 Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away, work with your arms extended.
4 Conduct a dry-run on all sources in excess of 1 mCi to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding 1/2 cc of water, which renews its effectiveness for testing

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port The source should be kept shielded while smearing the area.)
2 Remove the wet filter cloth from its envelope (by using the zip-lip opening) and thoroughly smear the source or the area of the source container which contacts the source.
3. Replace this smear in the plastic envelope marked "WET SMEAR ONLY" and reseal the zip-lip opening
4 Replace the source back into its shielded container
5. Place the plastic envelope, along with the completed "Leak Test Inventory and Report Form" in the supplied self-addressed envelope and mail to Todd Research & Technical Division
6 Upon receipt of your completed data sheet and smears from your test kit, Todd Research & Technical Division will perform the necessary assay and evaluation and will issue a certification of the results. The certificate should be retained for review by your licensing authority upon request

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div

Address P.O Box 579 City Niagara Falls State NY Zip 14302

ISOTOPE Cs 137 ACTIVITY 50 mCi

IDENT./SERIAL NO. CS-2225 (stack furnace) LEAK TEST DATE 5/23/83

SMEAR TAKEN BY D R Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage under our Texas Radioactive Material License No. 11-871 (copy available upon request).

ALPHA	BETA-GAMMA
—	< .0005

Our findings show the leakage to be uCi. (Wet)

Certified by C. E. Minton, Jr. Date 5/27/83

([redacted] Health Physics Representative)

SONTRAC SERVICES, INC.

TSC-RT-36
Rev 4

UCCNHT0001371

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

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For license approval of our service, please refer to "Todd Research & Technical Division SIT-1 Kit" in your application to your State, Division of Licensing, or the NRC Division of Licensing.

CAUTION

1. Portable survey instruments should be used during all smear testing.
2. Rubber gloves should be worn, especially when handling beta sources.
3. Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away; work with your arms extended.
4. Conduct a dry-run on all sources in excess of 1 mCi to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding 1/2 cc of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div.

Address P.O. Box 579 City Niagara Falls State NY Zip 14302

ISOTOPE Pu_{238}, Co_{57}, Fe_{55}, Cd_{109} ACTIVITY 30mCi, 1mCi, 20mCi, 3mCi

IDENT./SERIAL NO. 7222/3, C-633, 23, A-962 LEAK TEST DATE 12/16/82

SMEAR TAKEN BY D.R. Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage under our Texas Radioactive Material License No. 11-871 (copy available upon request).

ALPHA	BETA-GAMMA
<.0005	<.0005

Our findings show the leakage to be uCi. (Wet)

Certified by C.E. Minton Jr. Date 12/20/82

(Health Physics Representative)

SONTRAC SERVICES, INC

TSC-RT-36
Rev. 4

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

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CAUTION

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4. Conduct a dry-run on all sources in excess of 1 mCi to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding 1/2 cc of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div.

Address P.O. Box 579 City Niagara Falls State NY Zip 14302

ISOTOPE Pu 238, Co 57, Fe 55, Cd 109 ACTIVITY 30mCi, 1mCi, 20mCi, 3mCi

IDENT./SERIAL NO. 7222/3, C-633, 23, A-962 LEAK TEST DATE 6/16/82

SMEAR TAKEN BY D.R. Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage under our Texas Radioactive Material License No. 11-871 (copy available upon request).

ALPHA	BETA-GAMMA
<.0005	<.0005

Our findings show the leakage to be uCi. (Wet)

Certified by [signature] Date 6/20/82

(~~Title~~ Health Physics Representative)

SUNTRAC SERVICES, INC

TSC-RT-36
Rev. 4

UCCNHT0001375

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

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For license approval of our service, please refer to "Todd Research & Technical Division SIT-1 Kit" in your application to your State, Division of Licensing, or the NRC Division of Licensing.

CAUTION

1. Portable survey instruments should be used during all smear testing.
2. Rubber gloves should be worn, especially when handling beta sources.
3. Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away; work with your arms extended.
4. Conduct a dry-run on all sources in excess of 1 mCi to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding 1/2 cc of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
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4. Replace the source back into its shielded container.
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Send all "SIT-1" Kits to:

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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div.

Address P.O. Box 579 City Niagara Falls State NY Zip 14302

ISOTOPE Cd 109 ACTIVITY 3 mCi

IDENT./SERIAL NO. A-962 LEAK TEST DATE 12/16/81

SMEAR TAKEN BY D.R Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage under our Texas Radioactive Material License No. 11-871 (copy available upon request).

ALPHA	BETA-GAMMA
—	<.0005

Our findings show the leakage to be ____ uCi. (Wet)

Certified by C. E. Manton Jr Date 12/21/81

(~~Todd~~ Health Physics Representative)

SONTRAC SERVICES, INC.

TSC-RT-36
Rev. 4

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

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CAUTION

1. Portable survey instruments should be used during all smear testing.
2. Rubber gloves should be worn, especially when handling beta sources.
3. Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away; work with your arms extended.
4. Conduct a dry-run on all sources in excess of 1 mCi to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding 1/2 cc of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
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4. Replace the source back into its shielded container.
5. Place the plastic envelope, along with the completed "Leak Test Inventory and Report Form" in the supplied self-addressed envelope and mail to Todd Research & Technical Division.
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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div.

Address P.O. Box 579 City Niagara Falls State NY Zip 14302

ISOTOPE Fe 55 ACTIVITY 20 mCi

IDENT./SERIAL NO. 23 LEAK TEST DATE 12/16/81

SMEAR TAKEN BY D.R Brasnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage under our Texas Radioactive Material License No. 11-871 (copy available upon request).

ALPHA	BETA-GAMMA
<	.0005

Our findings show the leakage to be uCi. (Wet)

Certified by C. E. Maestas Jr Date 12/21/81

(~~Todd~~ Health Physics Representative)

Santrace Services, Inc

TSC-RT-36
Rev. 4

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

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For license approval of our service, please refer to "Todd Research and Technical Division SIT-1 Kit" in your application to State of Texas, Division of Licensing, or the NRC Division of Licensing.

CAUTION

1. Portable survey instruments should be used during all smear testing.
2. Rubber gloves should be worn, especially when handling beta sources.
3. Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away; work with your arms extended.
4. Conduct a dry-run on all beta sources in excess of 1 mCi, gamma sources on ^{60}Co up to 40 mCi and ^{137}Cs up to 150 mCi, to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding ½ cc of water, which renews its effectiveness for testing.

TO PERFORM TEST

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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals D.V.

Address P.O Box 579 City Niagara Falls State NY Zip 14302

ISOTOPE Co 57 ACTIVITY 1 mC.

IDENT./SERIAL NO. C-633 LEAK TEST DATE 12/16/81

SMEAR TAKEN BY D R. Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage.

ALPHA	BETA-GAMMA
—	< .0005

Our findings show the leakage to be uCi. (Wet)

Certified by C.E. Winters Jr Date 12-21-81

(~~Todd~~ Health Physics Representative)

Santrac Serv. Inc

TSC-RT-36

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp, Metals Div

Address P.O. Box 579 City Niagara Falls State NY Zip 14302

ISOTOPE Pu 238 ACTIVITY 30 mCi

IDENT./SERIAL NO. 7222/3 LEAK TEST DATE 12/16/81

SMEAR TAKEN BY D.R Brosnahan

Do Not Write Below This Line

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ALPHA	BETA-GAMMA
<.0005	<.0005

Our findings show the leakage to be uCi. (Wet)

Certified by C. E. Montana Jr Date 12/21/81

(~~Todd~~ Health Physics Representative)

SONTRAC Servs. Inc

TSC-RT-36
Rev. 4

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

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5. If the "wet" patch dries out, it should be moistened by adding ½ cc of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
2. Remove the wet filter cloth from its envelope (by using the zip-lip opening) and thoroughly smear the source or the area of the source container which contacts the source.
3. Replace this smear in the plastic envelope marked "WET SMEAR ONLY" and reseal the zip-lip opening.
4. Place the plastic envelope, along with the "Leak Test Request and Report Form" in the supplied self-addressed envelope and mail to Todd Research and Technical Division.
5. Upon receipt of your completed data sheet and smears from your test, Todd Research and Technical Division will perform the necessary evaluation and will issue a certification of the results. The certificate should be retained for review by the Texas State Compliance Division upon request.

Send all requests to:

TODD RESEARCH & TECHNICAL
DIVISION
P.O. BOX 1600
GALVESTON, TEXAS 77553
PHONE - 713 - 744-7141

ATTN: RAD-CON

CAUTION: Conduct a survey of the outside of each package placed in the U.S. Mails. Any reading over 0.5 mr/hr at contact with envelope or package shall not be mailed.

LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div.

Address P.O. Box 579 4625 Royal Ave City Niagara Falls State NY Zip 14302

ISOTOPE Cal 109 ACTIVITY 3 m Ci

IDENT./SERIAL NO. A-962 LEAK TEST DATE ~~12/4~~ 6/16/81

SMEAR TAKEN BY D.R. Brasseler

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage.

ALPHA	BETA-GAMMA
	Less Than .0005

Our findings show the leakage to be uCi. (Wet)

Certified by Thelma L. Hunter Date 6/24/81

(Todd Health Physics Representative)

TSC-RT-36
Rev. 4

UCCNHT0001385

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

The Todd Research and Technical Division SIT-1 Kit is designed for use with alpha or beta-gamma emitting sources or for low level gamma sources. It may also be used for testing large radiography gamma sources, where due to the potential radiation hazard, a smear is taken of the inside surface of the source housing, cable, etc., rather than the source capsule itself.

In special cases where a source is permanently fixed into a system, the closest and most accessible surface such as conical port, source housings, etc., may be taken as the smear area. The kit consists of one piece of filter cloth in a plastic zip-lip envelope, wet with our decontamination solution.

For license approval of our service, please refer to "Todd Research and Technical Division SIT-1 Kit" in your application to State of Texas, Division of Licensing, or the NRC Division of Licensing.

CAUTION

1. Portable survey instruments should be used during all smear testing.
2. Rubber gloves should be worn, especially when handling beta sources.
3. Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away; work with your arms extended.
4. Conduct a dry-run on all beta sources in excess of 1 mCi, gamma sources on ^{60}Co up to 40 mCi and ^{137}Cs up to 150 mCi, to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding ½ cc of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
2. Remove the wet filter cloth from its envelope (by using the zip-lip opening) and thoroughly smear the source or the area of the source container which contacts the source.
3. Replace this smear in the plastic envelope marked "WET SMEAR ONLY" and reseal the zip-lip opening.
4. Place the plastic envelope, along with the "Leak Test Request and Report Form" in the supplied self-addressed envelope and mail to Todd Research and Technical Division.
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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div.

Address P.O. Box 579 4625 Royal Ave. City Niagara Falls State NY Zip 14302

ISOTOPE Fe 55 ACTIVITY 20 mCi

IDENT./SERIAL NO. 23 LEAK TEST DATE 6/16/81

SMEAR TAKEN BY D.R. Broshahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage.

ALPHA	BETA-GAMMA
———	less than .0005

Our findings show the leakage to be uCi. (Wet)

Certified by Thelma L. Hunter Date 24 June '81
(Todd Health Physics Representative)

TSC-RT-36

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

The Todd Research and Technical Division SIT-1 Kit is designed for use with alpha or beta-gamma emitting sources or for low level gamma sources. It may also be used for testing large radiography gamma sources, where due to the potential radiation hazard, a smear is taken of the inside surface of the source housing, cable, etc., rather than the source capsule itself.

In special cases where a source is permanently fixed into a system, the closest and most accessible surface such as conical port, source housings, etc., may be taken as the smear area. The kit consists of one piece of filter cloth in a plastic zip-lip envelope, wet with our decontamination solution.

For license approval of our service, please refer to "Todd Research and Technical Division SIT-1 Kit" in your application to State of Texas, Division of Licensing, or the NRC Division of Licensing.

CAUTION

1. Portable survey instruments should be used during all smear testing.
2. Rubber gloves should be worn, especially when handling beta sources.
3. Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away; work with your arms extended.
4. Conduct a dry-run on all beta sources in excess of 1 mCi, gamma sources on ^{60}Co up to 40 mCi and ^{137}Cs up to 150 mCi, to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding ½ cc of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div.

Address P.O. Box 579 4625 Royal Ave. City Niagara Falls State NY Zip 14302

ISOTOPE Pu 238 ACTIVITY 30 m Ci

IDENT./SERIAL NO. 7222/3 LEAK TEST DATE 6/16/81

SMEAR TAKEN BY D.R. Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage.

ALPHA	BETA-GAMMA
less than .0005	less than .0005

Our findings show the leakage to be uCi. (Wet)

Certified by J.L. Hunter Date 6/24/81

(Todd Health Physics Representative)

TSC-RT-36

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

The Todd Research and Technical Division SIT-1 Kit is designed for use with alpha or beta-gamma emitting sources or for low level gamma sources. It may also be used for testing large radiography gamma sources, where due to the potential radiation hazard, a smear is taken of the inside surface of the source housing, cable, etc., rather than the source capsule itself.

In special cases where a source is permanently fixed into a system, the closest and most accessible surface such as conical port, source housings, etc., may be taken as the smear area. The kit consists of one piece of filter cloth in a plastic zip-lip envelope, wet with our decontamination solution.

For license approval of our service, please refer to "Todd Research and Technical Division SIT-1 Kit" in your application to State of Texas, Division of Licensing, or the NRC Division of Licensing.

CAUTION

1. Portable survey instruments should be used during all smear testing.
2. Rubber gloves should be worn, especially when handling beta sources.
3. Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away; work with your arms extended.
4. Conduct a dry-run on all beta sources in excess of 1 mCi, gamma sources on ^{60}Co up to 40 mCi and ^{137}Cs up to 150 mCi, to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding ½ cc of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div.

Address P.O. Box 579 4625 Royal Ave. City Niagara Falls State NY Zip 14302

ISOTOPE Co 57 ACTIVITY 1 mCi

IDENT./SERIAL NO. C-633 LEAK TEST DATE 6/16/81

SMEAR TAKEN BY D.R. Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage.

ALPHA	BETA-GAMMA
—	less than 2.0005

Our findings show the leakage to be uCi. (Wet)

Certified by Thelma L. Hunter Date 24 June '81
(Todd Health Physics Representative)

TSC-RT-36

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

The Todd Research and Technical Division SIT-1 Kit is designed for use with alpha or beta-gamma emitting sources or for low level gamma sources. It may also be used for testing large radiography gamma sources, where due to the potential radiation hazard, a smear is taken of the inside surface of the source housing, cable, etc., rather than the source capsule itself.

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For license approval of our service, please refer to "Todd Research and Technical Division SIT-1 Kit" in your application to State of Texas, Division of Licensing, or the NRC Division of Licensing.

CAUTION

1. Portable survey instruments should be used during all smear testing.
2. Rubber gloves should be worn, especially when handling beta sources.
3. Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away; work with your arms extended.
4. Conduct a dry-run on all beta sources in excess of 1 mCi, gamma sources on ^{60}Co up to 40 mCi and ^{137}Cs up to 150 mCi, to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding ½ cc of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div.

Address P.O. Box 579 4625 Royal Ave. City Niagara Falls State NY Zip 14302

ISOTOPE Cd 109 ACTIVITY 3 mC.

IDENT./SERIAL NO. A-962 LEAK TEST DATE 12/16/80

SMEAR TAKEN BY D.R. Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage.

ALPHA	BETA-GAMMA
<.0005	<.0005

Our findings show the leakage to be uCi. (Wet)

Certified by J. Labrie Date 12/19/80
(Todd Health Physics Representative)

TSC-RT-36

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

The Todd Research and Technical Division SIT-1 Kit is designed for use with alpha or beta-gamma emitting sources or for low level gamma sources. It may also be used for testing large radiography gamma sources, where due to the potential radiation hazard, a smear is taken of the inside surface of the source housing, cable, etc., rather than the source capsule itself.

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For license approval of our service, please refer to "Todd Research and Technical Division SIT-1 Kit" in your application to State of Texas, Division of Licensing, or the NRC Division of Licensing.

CAUTION

1. Portable survey instruments should be used during all smear testing.
2. Rubber gloves should be worn, especially when handling beta sources.
3. Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away; work with your arms extended.
4. Conduct a dry-run on all beta sources in excess of 1 mCi, gamma sources on ^{60}Co up to 40 mCi and ^{137}Cs up to 150 mCi, to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding ½ cc of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div.

Address P.O. Box 579 4625 Royal Ave. City Niagara Falls State NY Zip 14302

ISOTOPE Co 57 ACTIVITY 1 mCi

IDENT./SERIAL NO. C-633 LEAK TEST DATE 12/16/80

SMEAR TAKEN BY D. R. Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage.

ALPHA	BETA-GAMMA
2.0005	< .0005

Our findings show the leakage to be uCi. (Wet)

Certified by V LaBare Date 12/19/80
(Todd Health Physics Representative)

TSC-RT-36

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

The Todd Research and Technical Division SIT-1 Kit is designed for use with alpha or beta-gamma emitting sources or for low level gamma sources. It may also be used for testing large radiography gamma sources, where due to the potential radiation hazard, a smear is taken of the inside surface of the source housing, cable, etc., rather than the source capsule itself.

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CAUTION

1. Portable survey instruments should be used during all smear testing.
2. Rubber gloves should be worn, especially when handling beta sources.
3. Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away; work with your arms extended.
4. Conduct a dry-run on all beta sources in excess of 1 mCi, gamma sources on ^{60}Co up to 40 mCi and ^{137}Cs up to 150 mCi, to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding ½ cc of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div.

Address P.O.Box 579 4625 Royal Ave. City Niagara Falls State NY Zip 14302

ISOTOPE Pu 238 ACTIVITY 30 mCi

IDENT./SERIAL NO. 7222/3 LEAK TEST DATE 12/16/80

SMEAR TAKEN BY D. R. Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage.

ALPHA	BETA-GAMMA
<.0005	<.0005

Our findings show the leakage to be uCi. (Wet)

Certified by V. LaBare Date 12/19/80
(Todd Health Physics Representative)

TSC-RT-36

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

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CAUTION

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2. Rubber gloves should be worn, especially when handling beta sources.
3. Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away; work with your arms extended.
4. Conduct a dry-run on all beta sources in excess of 1 mCi, gamma sources on ^{60}Co up to 40 mCi and ^{137}Cs up to 150 mCi, to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding ½ cc of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div.

Address P.O. Box 579 4625 Royal Ave City Niagara Falls State NY Zip 14302

ISOTOPE Fe 55 ACTIVITY 20 mCi

IDENT./SERIAL NO. 23 LEAK TEST DATE 12/16/80

SMEAR TAKEN BY P.R. Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage.

ALPHA	BETA-GAMMA
<.0005	<.0005

Our findings show the leakage to be uCi. (Wet)

Certified by J. LaBrie Date 12/19/80
(Todd Health Physics Representative)

TSC-RT-36

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

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CAUTION

1. Portable survey instrments should be used during all smear testing.
2. Rubber gloves should be worn, especially when handling beta sources.
3. Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away; work with your arms extended.
4. Conduct a dry-run on all beta sources in excess of 1 mCi, gamma sources on 60 Co up to 40 mCi and 173 Cs up to 150 mCi, to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding 1/2 c.c. of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
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5. Upon receipt of your completed data sheet and smears from your test, Todd Research and Technical Division will perform the necessary evaluation and will issue a certification of the results. The certificate should be retained for review by the Texas State Compliance Division upon request.

The cost of this service is based on the number of kits returned for assay at any one time. The price for 1 to 5 kits is $9.00 each, this cost being possible by your remittance of payment with the leak test request, thereby eliminating billing cost. For larger quantities, a leak test price list is available upon request. Kits received that are not prepaid will cause a $25.00 billing fee to be charged to all customers unless previous arrangements have been made i.e. purchase orders and etc.

Send all requests to:

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DIVISION
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GALVESTON, TEXAS 77553
PHONE - 713 - 744-7141

ATTN RAD-CON

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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div.

Address P.O. Box 579 4625 Royal Ave. City Niagara Falls State NY Zip 14302

Isotope Cd 109 Activity 3 mC.

Ident./Serial No. A-962 Leak Test Date 6/16/80

Smear Taken By D.R. Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage.

ALPHA	BETA-GAMMA
	<.0005

Our findings show the leakage to be ____ µCi. (wet)

Certified by _____ Date 7-7-80
(Todd Health Physics Representative)

TSC-RT-36
Rev. 3
2/14/75

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

The Todd Research and Technical Division SIT-1 Kit is designed for use with alpha or beta-gamma emitting sources or for low level gamma sources. It may also be used for testing large radiography gamma sources, where due to the potential radiation hazard, a smear is taken of the inside surface of the source housing, cable, ets., rather than the source capsule itself.

In special cases where a source is permanently fixed into a system, the closest and most accessible surface such as conical port, source housings, etc., may be taken as the smear area. The kit consists of one piece of filter cloth in a plastic zip-lip envelope, wet with our decontamination solution.

For license approval of our service, please refer to "Todd Research and Technical Division SIT-1 Kit" in your application to State of Texas, Division of Licensing, or the NRC Division of Licensing.

CAUTION

1. Portable survey instrments should be used during all smear testing.
2. Rubber gloves should be worn, especially when handling beta sources.
3. Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away; work with your arms extended.
4. Conduct a dry-run on all beta sources in excess of 1 mCi, gamma sources on 60 Co up to 40 mCi and 173 Cs up to 150 mCi, to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding 1/2 c.c. of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
2. Remove the wet filter cloth from its envelope (by using the zip-lip opening) and thoroughly smear the source or the area of the source container which contacts the source.
3. Replace this smear in the plastic envelope marked "WET SMEAR ONLY" and reseal the zip-lip opening.
4. Place the plastic envelope, along with the "Leak Test Request and Report Form" in the supplied self-addressed envelope and mail to Todd Research and Technical Division.
5. Upon receipt of your completed data sheet and smears from your test, Todd Research and Technical Division will perform the necessary evaluation and will issue a certification of the results. The certificate should be retained for review by the Texas State Compliance Division upon request.

The cost of this service is based on the number of kits returned for assay at any one time. The price for 1 to 5 kits is $9.00 each, this cost being possible by your remittance of payment with the leak test request, thereby eliminating billing cost. For larger quantities, a leak test price list is available upon request. Kits received that are not prepaid will cause a $25.00 billing fee to be charged to all customers unless previous arrangements have been made i.e. purchase orders and etc.

Send all requests to:

TODD RESEARCH & TECHNICAL
DIVISION
P.O. BOX 1600
GALVESTON, TEXAS 77553
PHONE - 713 - 744-7141

ATTN · RAD-CON

CAUTION: Conduct a survey of the outside of each package placed in the U.S. Mails. Any reading over 0 5 mr/hr at contact with envelope or package shall not be mailed.

LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div.

Address P.O. Box 579 4625 Royal Ave. City Niagara Falls State NY Zip 14302

Isotope Pu 238 Activity 30 mCi

Ident./Serial No. 722213 Leak Test Date 6/16/80

Smear Taken By D. R. Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage.

	ALPHA	BETA-GAMMA
Our findings show the leakage to be	<.0005	<.0005

μCi. (wet)

Certified by J Rudd (Todd Health Physics Representative) Date

TSC-RT-36
Rev. 3
2/14/75

455-00029

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

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CAUTION

1. Portable survey instrments should be used during all smear testing.
2. Rubber gloves should be worn, especially when handling beta sources.
3. Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away; work with your arms extended.
4. Conduct a dry-run on all beta sources in excess of 1 mCi, gamma sources on 60 Co up to 40 mCi and 173 Cs up to 150 mCi, to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding 1/2 c.c. of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
2. Remove the wet filter cloth from its envelope (by using the zip-lip opening) and thoroughly smear the source or the area of the source container which contacts the source.
3. Replace this smear in the plastic envelope marked "WET SMEAR ONLY" and reseal the zip-lip opening.
4. Place the plastic envelope, along with the "Leak Test Request and Report Form" in the supplied self-addressed envelope and mail to Todd Research and Technical Division.
5. Upon receipt of your completed data sheet and smears from your test, Todd Research and Technical Division will perform the necessary evaluation and will issue a certification of the results. The certificate should be retained for review by the Texas State Compliance Division upon request.

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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp., Metals Div.

Address P.O. Box 579 4625 Royal Ave. City Niagara Falls State NY Zip 14302

Isotope Co 57 Activity 1 mCi

Ident./Serial No. C-633 Leak Test Date 6/16/80

Smear Taken By D.R. Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage.

ALPHA	BETA-GAMMA
	<.0005

Our findings show the leakage to be ____ µCi. (wet)

Certified by _____ Date 7-7-80
(Todd Health Physics Representative)

TSC-RT-36
Rev 3
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455-00029

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

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In special cases where a source is permanently fixed into a system, the closest and most accessible surface such as conical port, source housings, etc., may be taken as the smear area. The kit consists of one piece of filter cloth in a plastic zip-lip envelope, wet with our decontamination solution.

For license approval of our service, please refer to "Todd Research and Technical Division SIT-1 Kit" in your application to State of Texas, Division of Licensing, or the NRC Division of Licensing.

CAUTION

1. Portable survey instruments should be used during all smear testing.
2. Rubber gloves should be worn, especially when handling beta sources.
3. Always use tweezers, tongs, forceps or handles to keep all sources at least one foot away; work with your arms extended.
4. Conduct a dry-run on all beta sources in excess of 1 mCi, gamma sources on ^{60}Co up to 40 mCi and ^{137}Cs up to 150 mCi, to assure that shielding is sufficient to limit the exposure of personnel doing the test.
5. If the "wet" patch dries out, it should be moistened by adding ½ cc of water, which renews its effectiveness for testing.

TO PERFORM TEST

1. Remove the source from its container and place it in a shielded area. (In those cases where it is impractical to remove a permanently fixed source from a special container, it is acceptable to make the smear on an accessible area adjacent to the source, for example, inside a conical beaming port. The source should be kept shielded while smearing the area.)
2. Remove the wet filter cloth from its envelope (by using the zip-lip opening) and thoroughly smear the source or the area of the source container which contacts the source.
3. Replace this smear in the plastic envelope marked "WET SMEAR ONLY" and reseal the zip-lip opening.
4. Place the plastic envelope, along with the "Leak Test Request and Report Form" in the supplied self-addressed envelope and mail to Todd Research and Technical Division.
5. Upon receipt of your completed data sheet and smears from your test, Todd Research and Technical Division will perform the necessary evaluation and will issue a certification of the results. The certificate should be retained for review by the Texas State Compliance Division upon request.

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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp, Metals Div.

Address P.O.Box 579 4625 Royal Ave. City Niagara Falls State NY Zip 14302

ISOTOPE Fe 55 ACTIVITY 20 mCi

IDENT./SERIAL NO. 23 LEAK TEST DATE 6/16/80

SMEAR TAKEN BY D. R. Brosnahan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage.

ALPHA	BETA-GAMMA
	<.0005

Our findings show the leakage to be : uCi. (Wet)

Certified by _____ Date 7-7-80
(Todd Health Physics Representative)

TSC-RT-36

TODD SHIPYARDS CORPORATION RESEARCH & TECHNICAL DIVISION

SEALED SOURCE INTEGRITY TEST SERVICES

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CAUTION

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TO PERFORM TEST

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ATTN · RAD-CON

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LEAK TEST INVENTORY/REPORT FORM

Company Name Union Carbide Corp, Metals Div

Address P.O. Box 579 4625 Royal Ave City Niagara Falls State NY Zip 14302

Isotope Cs - 137 Activity 50 mCi

Ident./Serial No. CS - 2225 (stack) Leak Test Date 5/23/80

Smear Taken By D.R Brosnehan

Do Not Write Below This Line

This is to certify that the above described smear has been assayed at our facilities for indication of source leakage.

ALPHA	BETA-GAMMA
—	< .0005

Our findings show the leakage to be μCi. (wet)

Certified by J A Morgan Date 6-3-80
(Todd Health Physics Representative)

TSC-RT-36
Rev. 3
2/14/75

455-00029

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